REFERENCE 115 Page 1

JAWORSKI, MARK

From:

Hill, Michael

Sent:

Tuesday, August 03, 2010 4:32 PM

To:

JAWORSKI, MARK

Subject:

Intersection Method for PPE Location - Gary Development Landfill (1989 Aerial Photography)

Attachments: Gary_Dev_PPE_1989_BW_20100217.pdf; PPE reference points Gary Development

Landfill.doc; Gary_Dev_PPE_1989_20100217.pdf; PPE 2005 reference line documentation

Gary Development Landfill.doc

Mark:

I was able to locate the Probable Point of Entry for Gary Development Landfill by selecting 4 visually discernible features (UO1, UO2, UO3, and UO4) on 1989 aerial photography and crossing two lines (Unpermitted Outfall Discharge Line "A" - UO2 to UO4 and Unpermitted Outfall Discharge Line "B" - UO1 to UO3) to intersect the location of the Unpermitted Outfall Discharge. The Adobe Acrobat .pdf file supporting this method is attached (Gary_Dev_PPE_1989_BW_20100217.pdf) as well as a Microsoft Word document (PPE reference points Gary Development Landfill doc) that details of the location of the reference points. This same method was used to determine the UTM coordinates in the attached Adobe Acrobat .pdf file (Gary Dev PPE 1989 20100217.pdf) that uses a 2005 digital orthophoto as a base layer. A Microsoft Word (PPE 2005 reference line documentation Gary Development Landfill.doc) document was created to document the same points with reference to the updated 2005 digital orthophotos.

Please feel free to ask any questions that you might have concerning this method.

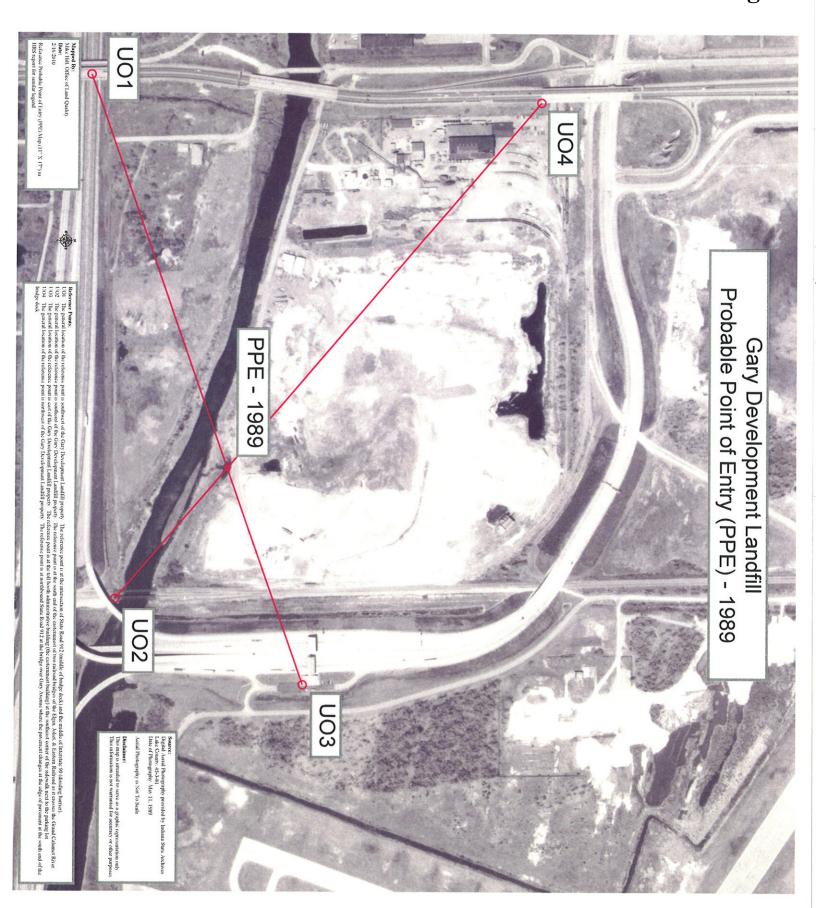
Sincerely,

Mike

Mike Hill, GISP

Senior Environmental Manager Indiana Department of Environmental Management Office of Land Quality, Science Services Branch Engineering and GIS Services Section mhill@idem.in.gov (317) 234-2475

REFERENCE 115 Page 2



Reference Point Information for Gary Development, Unpermitted Outfall - 1989

• Reference Points:

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- <u>UO1</u>: The general location of the reference point is southwest of the Gary Development Landfill property. The reference point is at the intersection of State Road 912 (middle of bridge deck) and the middle of Interstate 90 (dividing barrier).
- O <u>UO2</u>: The general location of the reference point is southeast of the Gary Development Landfill property. The reference point is at the south end of the easternmost of two railroad bridges of the Elgin, Joliet, & Eastern Railroad as it crosses the Grand Calumet River
- o <u>UO3</u>: The general location of the reference point is east of the Gary Development Landfill property. The reference point is at the toll booth administrative building (the easternmost building) at the southeast corner of the sidewalk next to the parking lot.
- O UO4: The general location of the reference point is northwest of the Gary Development Landfill property. The reference point is at northbound State Road 912 at the bridge over Gary Avenue where the pavement changes at the edge of pavement at the south end of the bridge deck.
- Source Map Scale:
 - 0 1:4,000
- Point / Line / Area:
 - o Line / Point
- Compilation Date:
 - 0 2-16-2009
- Compilation Method:
 - o Map Interpretation